

Title (en)  
METHOD FOR TARGETED MASS SPECTRAL PROTEOMIC ANALYSES

Title (de)  
VERFAHREN FÜR GEZIELTE PROTEOMISCHE MASSENSPEKTRALANALYSEN

Title (fr)  
PROCEDE D'ANALYSES PROTEOMIQUES SPECTRALES DE MASSE CIBLEES

Publication  
**EP 4343322 A2 20240327 (EN)**

Application  
**EP 24157440 A 20210421**

Priority  
• US 202016856987 A 20200423  
• EP 21169577 A 20210421

Abstract (en)  
A method for determining a quantity of an analyte in a liquid sample, comprises: adding a known quantity of an internal standard comprising an isotopically labeled version of the analyte to the sample; (b) providing a continuous stream of the sample having the internal standard to an inlet of a Liquid Chromatography Mass Spectrometry (LCMS) system; and repeatedly performing the steps of: performing a data-independent analysis of the precursor ion species using a mass analyzer, whereby mass spectra of a plurality of fragment-ion species are acquired; calculating one or more degree-of-matching scores that relate to either a number of ions of the internal standard that overlap between results of the data-independent analysis and tabulated mass spectral data of the internal standard; and performing quantitative tandem mass spectrometric analyses of the internal standard and the analyte if each of the degree-of-matching scores meets a respective degree-of-matching condition.

IPC 8 full level  
**G01N 30/72** (2006.01)

CPC (source: EP US)  
**G01N 30/7233** (2013.01 - US); **G01N 30/8637** (2013.01 - US); **G01N 30/8641** (2013.01 - US); **G01N 30/8675** (2013.01 - EP US); **G01N 30/8679** (2013.01 - EP); **G01N 33/6848** (2013.01 - US); **H01J 49/004** (2013.01 - US); **H01J 49/4265** (2013.01 - US); **G01N 30/7233** (2013.01 - EP); **G01N 2030/8831** (2013.01 - EP); **G01N 2458/15** (2013.01 - EP US); **G01N 2570/00** (2013.01 - US)

Citation (applicant)  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3901628 A1 20211027**; **EP 3901628 B1 20240501**; EP 4343322 A2 20240327; EP 4343322 A3 20240626; US 11493487 B2 20221108; US 11933770 B2 20240319; US 2021333249 A1 20211028; US 2023408463 A1 20231221

DOCDB simple family (application)  
**EP 21169577 A 20210421**; EP 24157440 A 20210421; US 202016856987 A 20200423; US 202218052003 A 20221102